

VPDES PERMIT PROGRAM FACT SHEET

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a MINOR MUNICIPAL permit.

1. PERMIT NO.: VA0090875 EXPIRATION DATE: November 30, 2011
2. FACILITY NAME AND LOCAL MAILING ADDRESS FACILITY LOCATION ADDRESS (IF DIFFERENT)
- Oak Hall Shopping Center
SE corner of US Hwy 13 @ Rt. 175 (Nash Corner)
Oak Hall, VA 23415
- CONTACT AT FACILITY: CONTACT AT LOCATION ADDRESS
NAME: Mr. Don Hearl NAME: same
TITLE: Vice-Pres. ESS TITLE:
PHONE: (540)-825-6660 PHONE:
3. OWNER CONTACT: (TO RECEIVE PERMIT) CONSULTANT CONTACT:
NAME: Mr. James Koehler NAME: Mr. Don Hearl, Vice-President
TITLE: Vice-President FIRM NAME: Env. Syst. Services, LTD
COMPANY NAME: TAI Oak Hall LLC ADDRESS: 218 N. Main Street
ADDRESS: 655 Fox Run Rd., Suite B Culpeper, VA 22701
Findley, OH 45840 PHONE: (540)-825-6660
PHONE: (419)-422-8443
4. PERMIT DRAFTED BY: DEQ, Water Permits, Regional Office
- Permit Writer(s): R.E. Smithson Date(s): 07/15/11
Reviewed By: M.H. Sauer Date(s): 07/24/11
5. PERMIT ACTION:
- () Issuance (X) Reissuance () Revoke & Reissue () Owner Modification
() Board Modification () Change of Ownership/Name [Effective Date:]
6. SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS:
- | | |
|----------------------|--|
| Attachment <u>1</u> | Site Inspection Report/Memorandum |
| Attachment <u>2</u> | Discharge Location/Topographic Map |
| Attachment <u>3</u> | Schematic/Plans & Specs/Site Map/Water Balance |
| Attachment <u>4</u> | TABLE I - Discharge/Outfall Description |
| Attachment <u>5</u> | TABLE II - Effluent Monitoring/Limitations |
| Attachment <u>6</u> | Effluent Limitations/Monitoring Rationale/Suitable
Data/Antidegradation/Antibacksliding |
| Attachment <u>7</u> | Special Conditions Rationale |
| Attachment <u>8</u> | Receiving Waters Info./Tier Determination/303(d) Listing Info |
| Attachment <u>9</u> | TABLE III(a) and TABLE III(b) - Change Sheets |
| Attachment <u>10</u> | EPA Permit Checklist |
| Attachment <u>11</u> | Chronology Sheet |
| Attachment <u>12</u> | Public Participation |
| Attachment <u>13</u> | Other Documents |

APPLICATION COMPLETE: 07/06/11 (DSS comments)

7. PERMIT CHARACTERIZATION: (Check as many as appropriate)

2

- | | |
|--|---|
| <input checked="" type="checkbox"/> Existing Discharge | <input checked="" type="checkbox"/> Effluent Limited |
| <input type="checkbox"/> Proposed Discharge | <input checked="" type="checkbox"/> Water Quality Limited |
| <input checked="" type="checkbox"/> Municipal | <input type="checkbox"/> WET Limit |
| SIC Code(s) 5411, 6512, 4952 | <input type="checkbox"/> Interim Limits in Permit |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Interim Limits in Other Document |
| SIC Code(s) | <input type="checkbox"/> Compliance Schedule Required |
| <input type="checkbox"/> POTW | <input type="checkbox"/> Site Specific WQ Criteria |
| <input type="checkbox"/> PVOTW | <input type="checkbox"/> Variance to WQ Standards |
| <input checked="" type="checkbox"/> Private | <input type="checkbox"/> Water Effects Ratio |
| <input type="checkbox"/> Federal | <input type="checkbox"/> Discharge to 303(d) Listed Segment |
| <input type="checkbox"/> State | <input type="checkbox"/> Toxics Management Program Required |
| <input type="checkbox"/> Publicly-Owned Industrial | <input type="checkbox"/> Toxics Reduction Evaluation |
| | <input type="checkbox"/> Storm Water Management Plan |
| | <input type="checkbox"/> Pretreatment Program Required |
| | <input type="checkbox"/> Possible Interstate Effect |

8. RECEIVING WATERS CLASSIFICATION: River basin information.

Outfall No(s): 001

Receiving Stream: Unnamed Trib to Tunnels Mill Br. To Bullbegger Creek
River Mile: 1.43
Basin: Chesapeake Bay, Atlantic Ocean & Small Coastal
Subbasin: N/A
Section: 2a
Class: III
Special Standard(s): none
Tidal: No

9. FACILITY DESCRIPTION: Describe the type facility from which the discharges originate.

Existing municipal discharge resulting from the discharge of treated domestic sewage.

10. LICENSED OPERATOR REQUIREMENTS: () No (X) Yes Class: IV

11. RELIABILITY CLASS: I

12. SITE INSPECTION DATE: 03/08/11 REPORT DATE: 03/10/11

Performed By: S.J. Thomas

SEE ATTACHMENT 1

13. DISCHARGE(S) LOCATION DESCRIPTION: Provide USGS Topo which indicates the discharge location, significant (large) discharger(s) to the receiving stream, water intakes, and other items of interest.

Name of Topo: Hallwood, VA Quadrant No.: 142A

SEE ATTACHMENT 2

14. ATTACH A SCHEMATIC OF THE WASTEWATER TREATMENT SYSTEM(S) [IND. & MUN.]. FOR INDUSTRIAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND ACTIVITIES. FOR MUNICIPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE TREATMENT PROVIDED.

SEE ATTACHMENT 3

15. DISCHARGE DESCRIPTION: Describe each discharge originating from this facility.

SEE ATTACHMENT 4

16. COMBINED TOTAL FLOW:

TOTAL: 0.01MGD (for public notice)

DESIGN FLOW: 0.01 MGD (MUN.)

17. STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS:

(Check all which are appropriate)

- ☒ State Water Control Law
- ☒ Clean Water Act
- ☒ VPDES Permit Regulation (9 VAC 25-31-10 et seq.)
- ☒ EPA NPDES Regulation (Federal Register)
- ☒ EPA Effluent Guidelines (40 CFR 133 or 400 - 471)
- ☒ Water Quality Standards (9 VAC 25-260-5 et seq.)
- ☒ Wasteload Allocation from a TMDL or River Basin Plan

18. EFFLUENT LIMITATIONS/MONITORING: Provide all limitations and monitoring requirements being placed on each outfall.

SEE TABLE II - ATTACHMENT 5

19. EFFLUENT LIMITATIONS/MONITORING RATIONALE: Attach any analyses of an outfall by individual toxic parameter. As a minimum, it will include: statistics summary (number of data values, quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or anti-backsliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

SEE ATTACHMENT 6

OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

VARIANCES/ALTERNATE LIMITATIONS: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

N/A

SUITABLE DATA: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate information/calculations.

All suitable effluent data were reviewed.

ANTIDEGRADATION REVIEW: Provide all appropriate information/calculations for the antidegradation review.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations that will result in attaining and/or maintaining all water quality criteria that apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses (see item 30: comments).

SEE ATTACHMENT 6

4

ANTIBACKSLIDING REVIEW: Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).

20. **SPECIAL CONDITIONS RATIONALE:** Provide a rationale for each of the permit's special conditions.

SEE ATTACHMENT 7

21. **TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE:** Provide the justification for any toxics monitoring program and/or toxics reduction program and WET limit.

N/A

22. **SLUDGE DISPOSAL PLAN:** Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge is hauled by Boggs Water & Sewer to a wastewater treatment plant in the City of Pocomoke, MD. It would be hauled from the facility on an as needed basis. The plan has been included in the VPDES application for approval. The Standard special condition is included in Part I of the permit.

23. **MATERIAL STORED:** List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

NONE.

24. **RECEIVING WATERS INFORMATION:** Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.)]. Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied. Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 8

25. **305(b)/303(d) Listed Segments:** Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges to an unnamed tributary to Bullbegger Creek. This receiving stream segment had been listed on the 305(b)/303(d) list for protection of shell fish. The permit has water quality-based limits for fecal coliform which have been achieved and require compliance with the standard prior to discharge. Given these limits, this facility can neither cause or contribute to a violation of the standards.

26. **CHANGES TO PERMIT:** Use **TABLE III(a)** to record any changes from the previous permit and the rationale for those changes. Use **TABLE III(b)** to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 9

27. NPDES INDUSTRIAL PERMIT RATING WORKSHEET:

5

N/A - This is a municipal facility.

28. DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from DEQ planning.

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. PUBLIC PARTICIPATION: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and noted how resolved.

The VDH waived the right to comment and/or object to the adequacy of the draft permit.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA waived the right to comment and/or object to the adequacy of the draft permit.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date _____, 2011
End Date _____, 2011

Persons may comment in writing or by e-mail to the DEQ on the proposed reissuance of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

6

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting:

Mr. Robert E. Smithson
Department of Environmental Quality (DEQ),
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Telephone: 757-518-2106
E-mail: Robert.smithsonjr@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed reissuance. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:

The facility utilizes dual ultraviolet (UV) banks for disinfection. Should the facility utilize chlorine feed as a backup in case of power failure, chlorine limitations and language have been added to this permit.

Pocomoke Sound & Pocomoke River, including Bullbegger Creek, had a bacteria (shellfish) TMDL approved by EPA 4/15/09 (SWCB approval 11/14/09). The facility's WLA= $7.57E+07$ MPN/100ml was based on their design flow of 0.01 MGD and 200 MPN/100ml permitted fecal coliform concentration. Shellfishing use was removed in 2010 (DSS administrative condemnation). **However, the (fecal coliform) TMDL will remain in effect based on permit requirements** (Permit limits have been established by determining wasteload allocations that will result in attaining and/or maintaining all water quality criteria that apply to the receiving stream, including narrative criteria). Fecal Coliform will be limited (200 MPN/100ml) and monitored 1/Month.

In addition, Bullbegger Cr. is a tributary to Chesapeake Bay (segment POCMH) which is listed in the Chesapeake Bay TMDL (EPA approved 12/29/10): **No WLA was assigned for this facility in this TMDL.**

ATTACHMENT 1

SITE INSPECTION REPORT/MEMORANDUM

Virginia Department of Environmental Quality

8

WASTEWATER FACILITY INSPECTION REPORT

FACILITY NAME: Oak Hall Shopping Center Corner of Highway Route 13 & Route 175 Oak Hall, VA 23415		INSPECTION DATE: March 8, 2011	
PERMIT No.: VA0090875		INSPECTOR: Stephen J. Thomas	
TYPE OF FACILITY: <input checked="" type="checkbox"/> Municipal <input checked="" type="checkbox"/> Small Minor <input type="checkbox"/> Industrial <input type="checkbox"/> Federal		REPORT DATE: March 10, 2011 TIME OF INSPECTION: Arrival : 0850 Departure: 1040	
PHOTOGRAPHS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		UNANNOUNCED INSPECTION? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
REVIEWED BY / Date: Kenneth T. Raum / 04-06-11 <i>KTR</i>			
PRESENT DURING INSPECTION: John Allen - ESS			

TECHNICAL INSPECTION

1. Has there been any new construction? • If so, were plans and specifications approved? <u>Comments:</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. Is the Operations and Maintenance Manual approved and up-to-date? <u>Comments:</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Are the Permit and/or Operation and Maintenance Manual specified licensed operator being met? <u>Comments:</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Are the Permit and/or Operation and Maintenance Manual specified operator staffing requirements being met? <u>Comments:</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Is there an established and adequate program for training personnel? <u>Comments:</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Are preventive maintenance task schedules being met? <u>Comments:</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7. Does the plant experience any organic or hydraulic overloading? <u>Comments:</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. Has there been any bypassing or overflows since the last inspection? <u>Comments:</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Is the standby generator (including power transfer switch) operational and exercised regularly? <u>Comments:</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10. Is the plant alarm system operational and tested regularly? <u>Comments:</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Permit #	VA0090875
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UNIT PROCESS EVALUATION SUMMARY SHEET

UNIT PROCESS	APPLICABLE	PROBLEMS*	COMMENTS
Sewage Pumping	X		
Flow Measurement (Influent)			
Screening/Comminution			
Grit Removal			
Oil/Water Separator			
Flow Equalization	X		
Ponds/Lagoons			
Imhoff Tank			
Primary Sedimentation	X		
Bioclere Units	X		
Septic Tank and Sand Filter			
Rotating Biological Contactor			
Activated Sludge Aeration			
Biological Nutrient Removal			
Sequencing Batch Reactor			
Secondary Sedimentation	X		
Flocculation			
Tertiary Sedimentation			
Filtration	X		
Micro-Screening			
Activated Carbon Adsorption			
Chlorination			
Dechlorination			
Ozonation			
Ultraviolet Disinfection	X		
Post Aeration	X		
Flow Measurement (Effluent)	X		
Land Application (Effluent)			
Plant Outfall	X		
Sludge Pumping			
Flotation Thickening (DAF)			
Gravity Thickening			
Aerobic Digestion			
Anaerobic Digestion			
Lime Stabilization			
Centrifugation			
Sludge Press			
Vacuum Filtration			
Drying Beds			
Thermal Treatment			
Incineration			
Composting			
Land Application (Sludge)			

* Problem Codes

- | | |
|----------------------------------|--|
| 1. Unit Needs Attention | 4. Unapproved Modification or Temporary Repair |
| 2. Abnormal Influent/Effluent | 5. Evidence of Process Upset |
| 3. Evidence of Equipment Failure | 6. Other (explain in comments) |

Permit # VA0090875

EFFLUENT FIELD DATA:

Flow	<u>.003</u> MGD	Dissolved Oxygen	<u>8.4</u> mg/L	TRC (Contact Tank)	<u> </u> mg/L
pH	<u>7.9</u> S.U.	Temperature	<u>14.7</u> °C	TRC (Final Effluent)	<u> </u> mg/L
Was a Sampling Inspection conducted? <input type="checkbox"/> Yes (see Sampling Inspection Report) <input checked="" type="checkbox"/> No					

CONDITION OF OUTFALL AND EFFLUENT CHARACTERISTICS:

1. Type of outfall:	<input checked="" type="checkbox"/> Shore based	<input type="checkbox"/> Submerged	Diffuser?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. Are the outfall and supporting structures in good condition?				<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3. Final Effluent (evidence of following problems):	<input type="checkbox"/> Sludge bar		<input type="checkbox"/> Grease		
	<input type="checkbox"/> Turbid effluent	<input type="checkbox"/> Visible foam	<input type="checkbox"/> Unusual color	<input type="checkbox"/> Oil sheen	
4. Is there a visible effluent plume in the receiving stream?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5. Receiving stream:	<input checked="" type="checkbox"/> No observed problems			<input type="checkbox"/> Indication of problems (explain below)	
<u>Comments: The receiving stream appeared normal; there was some algae growth both downstream and upstream of outfall, and the stream did conation blowing trash from the shopping center.</u>					

INSPECTION COMMENTS:

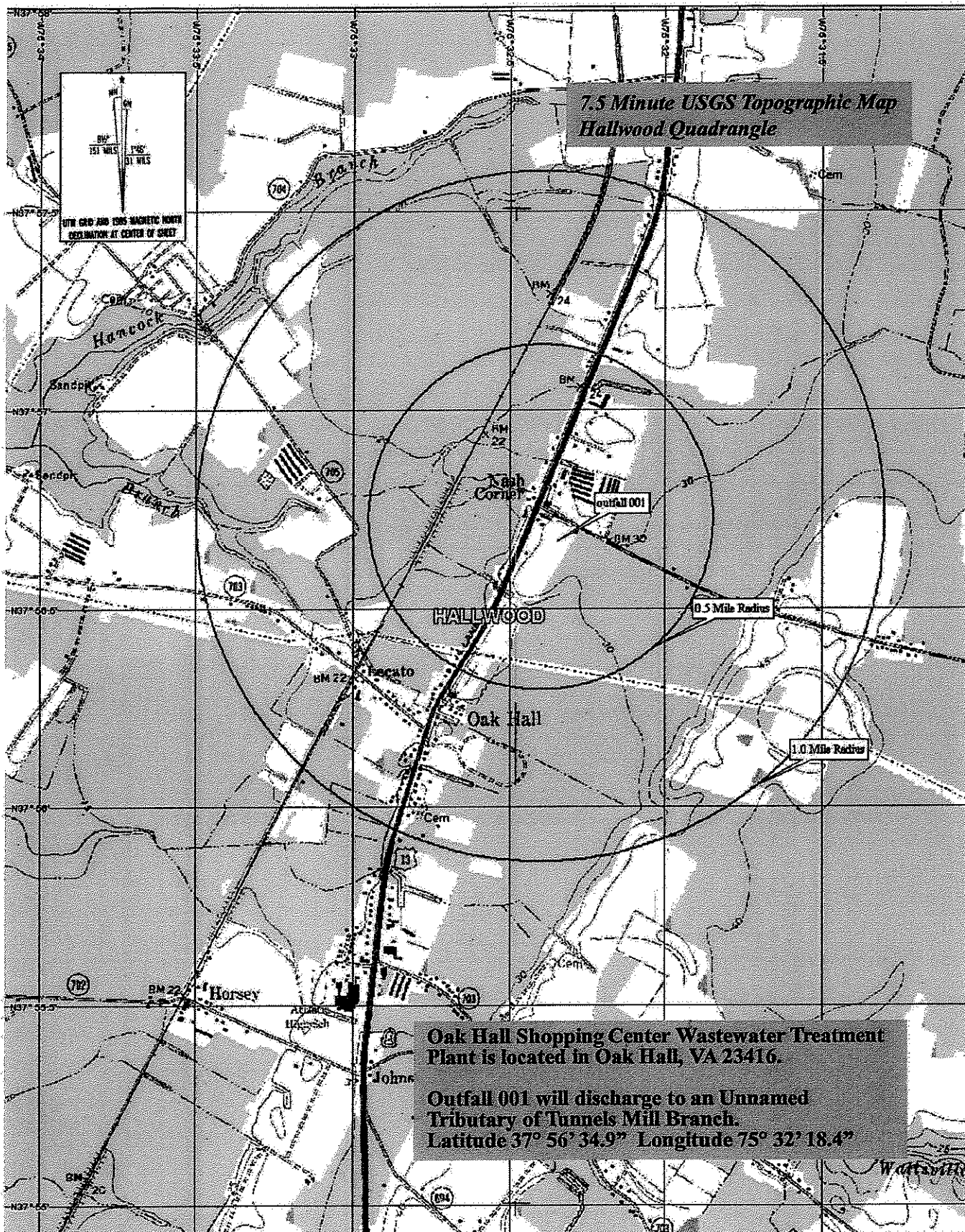
<p>The Oak Hall wastewater treatment plant was found to be in satisfactory operating condition at the time of the inspection. All plant equipment appeared to be operating properly during the inspection. A small Laundromat now discharges into the plant, but has not adversely affected operations. Meeting TKN limits on a consistent basis can be a problem during the coldest months of the year. Two operators share plant duties.</p> <p>I would like to thank Mr. John Allen for his cooperation and assistance during this inspection.</p>

REQUIRED CORRECTIVE ACTIONS:

No corrective action is required at this time.
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ATTACHMENT 2

DISCHARGE LOCATION/TOPOGRAPHIC MAP



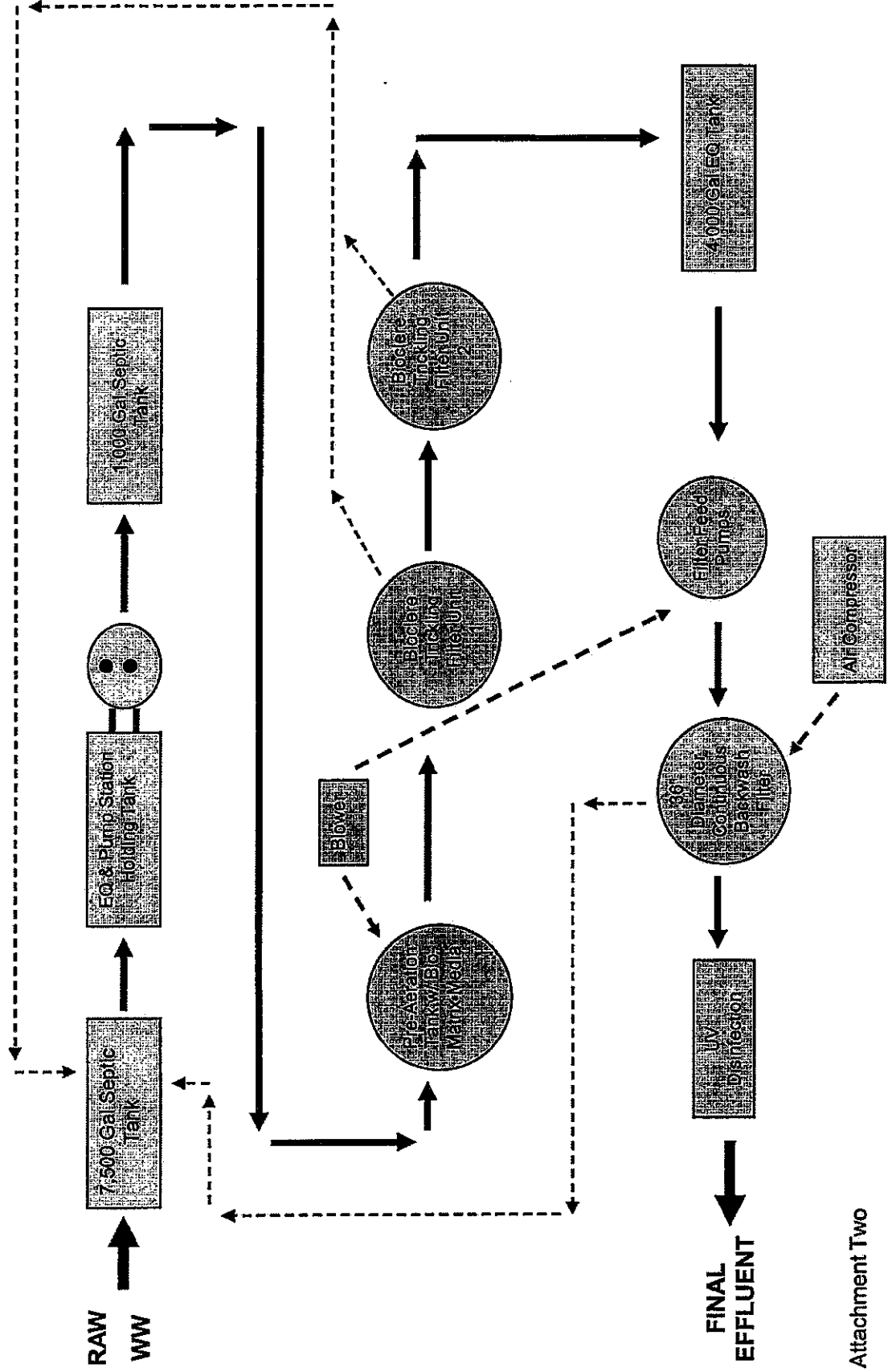
D TopoQuads Copyright © 1999 DeLorme, Yorktown, ME 04096 Source Data: USGS

700 ft Scale: 1:24,000 Detail: 1:12,000 Datum: WGS84

ATTACHMENT 3

SCHEMATIC/PLANS & SPECS/SITE MAP/

Oak Hall Shopping Center WWTP Flow Diagram



ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

TABLE I
NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
001	37°56' 34.9" 75°32' 18.4"	Domestic wastewater from grocery & retail stores	Treatment consists of grease trap, primary settling tank(s), aeration/trickling filtration, tertiary sand filtration (TKN removal) and UV light disinfection	0.01 MGD

- (1) List operations contributing to flow
- (2) Give brief description, unit by unit
- (3) Give maximum 30-day average flow for industry and design flow for municipal

ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

TABLE II - MUNICIPAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 001 DESIGN FLOW: 0.01 MGD
 Outfall Description: Domestic wastewater from small shopping center
 SIC CODE: 4952

(X) Final Limits () Interim Limits Effective Dates - From: reissuance date To: expiration date

PARAMETER & UNITS	BASIS FOR LIMITS	DESIGN FLOW MULTIPLIER	EFFLUENT LIMITATIONS				MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD) - [a]	3	0.01	NL	NA	NA	NL	1/Day	Estimate
pH (S.U)	3		NA	NA	6.0	9.0	1/Day	Grab
CBOD5 (mg/l) [c]	3		10	15	NA	NA	1/Month	Grab
CBOD5 (kg/d)	3	0.01	.38	.57	NA	NA	1/Month	Grab
TSS (mg/l) [c]	3		10	15	NA	NA	1/Month	Grab
TSS (kg/d)	3	0.01	.38	.57	NA	NA	1/Month	Grab
TRC (mg/l) [b] [c]	2	0.01	.008	.010	NA	NA	1/Day	Grab
D.O. (mg/l)	3		NA	NA	6.0	NA	1/Day	Grab
Fecal Coliform (N/CML)	2		200	NA	NA	NA	1/month (Between 10 am & 4 pm)	Grab
e. coli (#/100ml) [b]	2		126	NA	NA	NA	1/week (Between 10 am & 4 pm)	Grab
Total Kjeldahl Nitrogen (TKN) (mg/l) [c]	3		3.0	4.5	NA	NA	1/Month	Grab
Total Kjeldahl Nitrogen (TKN) (kg/d)	3	0.01	.11	.17	NA	NA	1/Month	Grab

TABLE II - MUNICIPAL EFFLUENT LIMITATIONS/MONITORING

NA = Not Applicable.

NL = No limitation, however, reporting is required.

Upon reissuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.C.5. for exceeding 95% of the design capacity three months consecutively.

[b] See Part I.B. for additional chlorine limitations and monitoring requirements.

[c] See Parts I.C.6. and I.C.7. for quantification levels and reporting requirements, respectively.

2. The design flow of this treatment facility is 0.010 MGD.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The bases for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - MUNICIPAL MINOR EFFLUENT LIMITATIONS

Attachment 2 continued

20

Final Chlorine Limitations Effective Dates -

From: permit issuance

To: permit expiration

TRC **	AFTER CL2 CONTACT TANK (Dechlor. Required)			AFTER DECHLORINATIO		AFTER CL2 CONTACT TANK (Dechlor. Not Required)				
	MIN.	EXC	INST. MIN.	WKLY AVG.	INST. MAX.	PERMIT RANGE	EXC	REPORT-ING RANGE	EXC.	TECH. MAX.
a) Non-Detect. Dechlor. Required	1.0	3	0.6 mg/l	.010 mg/l	---	NA	NA	NA	NA	NA
b) Detect. Dechlor. Required	---	---	---	---	---	NA	NA	NA	NA	NA
c) No Dechlor.	NA	NA	NA	NA	NA	---	---	---	---	---

*Totalizing, Indicating & Recording Equipment

** --Chlorine mass balance C_w (W for Tidal systems): check one

☒ a) $C_w < 0.1$ mg/l [dechlor. required, non-detectable format]

☐ b) $0.1 \text{ mg/l} \leq C_w < 2.0$ mg/l (2.5 mg/l for PWS, Shellfish waters) [dechlor. required, detectable format]

☐ c) $C_w > 2.0$ mg/l (2.5 mg/l for PWS, Shellfish waters) [dechlor. not required, include a restrictive technology max. value]

The design flow of this treatment facility is 0.01 MGD.

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

I.S. = Immersion Stabilization

See Part I.B. for additional TRC limitations.

ATTACHMENT 6

EFFLUENT LIMITATIONS/MONITORING
RATIONALE/SUITABLE DATA/
ANTIDEGRADATION/ANTIBACKSLIDING

ATTACHMENT 6

VPDES PERMIT PROGRAM

Rationale for Effluent Limitations and Monitoring

Monitoring frequency for CBOD5, TSS, TKN and FECAL COLIFORM will be 1/month. E. coli is 1/week and all other parameters will be monitored 1/D, based upon a design flow of 0.01 MGD and best professional judgement.

Limitations were based upon best professional judgement, with the exception of TRC, e. coli and fecal coliform, which are based upon water quality standards.

OUTFALL 001

Flow: No limit; monitoring 1/day, estimate - standard requirement for a municipal permit with this design flow.

pH: Minimum of 6.0 s.u., maximum of 9.0 s.u. - BPJ to protect water quality in the receiving stream.

CBOD5

& TSS: Monthly average limit of 10 mg/l (0.38 kg/d) and a weekly average limit of 15 mg/l (0.57 kg/d) were based upon best professional judgement and OWPP guidance (reference attachment 4-3 for details and basis); grab sample

TKN: Monthly average limit of 3.0 mg/l (.11 kg/d) and a maximum limit of 4.5 mg/l (.17 kg/d) were based upon best professional judgement and OWPP guidance (reference attachment 4-3 and 4-4 for details and basis); grab sample.

D.O.: Limit of 6.0 mg/l minimum; grab sample - BPJ and OWPP guidelines on swamp limitations ().

TRC: Limits of .008 mg/l monthly average and .010 mg/l weekly average are included in this permit based upon modeling results. This is in accordance with the VPDES Permit Manual

Fecal Coliform: Limit of 200 N/CML (geometric mean) monthly average is based upon the TMDL requirements and WLA (see TMDL discussion at bottom of page). Fecal Coliform will be limited (200 MPN/100ml) and monitored 1/Month. The (fecal coliform) TMDL will remain in effect based on permit requirements (permit limits have been established by determining wasteload allocations that will result in attaining and/or maintaining all water quality criteria that apply to the receiving stream, including narrative criteria).

E. coli: Limit of 126 #/100ml CML (geometric mean) monthly average required by Water Quality Standards, 9 VAC 25-260-170.A.2.: new bacterial standards. These standards became effective as of January 15, 2003, as did the revised disinfection policy of 9 VAC 25-260-170.B. The disinfection policy of 9 VAC 25-260-170.B. requires that all effluents attain the applicable bacteria concentration stated in 9 VAC 25-260-170.A.2. prior to discharge when utilizing an alternative to chlorination as a disinfection method (UV light).

No ammonia limitation is needed since a TKN limit of 3.0 mg/l protects the receiving stream from ammonia-N toxicity (see rationale page 30).

TMDLs : This receiving stream segment has been listed on the 305(b)/303(d) list for protection of shell fish. This facility discharges to an unnamed tributary to Bullbagger Creek. Pocomoke Sound & Pocomoke River, including Bullbagger Creek, had a bacteria (shellfish) TMDL approved by EPA 4/15/09 (SWCB approval 11/14/09). The facility's WLA= 7.57E+07 MPN/100ml was based on their design flow of 0.01 MGD and 200 MPN/100ml permitted fecal coliform concentration. Shellfishing use was removed in 2010 (DSS administrative condemnation). However, the (fecal coliform) TMDL will remain in effect based on permit requirements. Given these limits, this facility can neither cause or contribute to a violation of the standards.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

There are *no antibacksliding issues* to address in this permit reissuance

ATTACHMENT 7

SPECIAL CONDITIONS RATIONALE

ATTACHMENT 7
VPDES PERMIT PROGRAM
LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

B. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

Rationale: Required by Water Quality Standards, 9VAC 25-260-170, Fecal coliform bacteria; other waters. Also, 40 CFR 122.41(e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment in order to comply with the permit. This ensures proper operation of chlorination equipment to maintain adequate disinfection.

C. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Reopeners

a. Sludge Reopener

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-220 C., and 40 CFR 122.44 (c)(4), which note that all permits for domestic sewage treatment plants (including sludge-only facilities) include any applicable standard for sewage sludge use or disposal promulgated under section 405(d) of the Clean Water Act.

b. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, Section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, Section 62.1-44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in accordance to Section 402(o)(1) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan or other wasteload allocation prepared under Section 303 of the Act.

2. Licensed Operator Requirement

Rationale: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

3. Reliability Class

Rationale: Required by Sewage Collection and Treatment Regulations, 12 VAC 5-581-20 and 120 for all municipal facilities.

4. CTC, CTO and O & M Manual Requirements

Required by the State Water Control Law, Section 62.1-44.19; the Sewage Collection and Treatment Regulations (12 VAC 5-581 et seq); Section 401 of the Clean Water Act; 40 CFR 122.41(e); and the VPDES Permit Regulation (9 VAC-25-31-190E).

5. 95% Design Capacity Notification

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-200 B.2. for all POTW and PVOTW permits. Best professional judgement is used to apply this condition to other (private) municipal treatment facilities.

ATTACHMENT 7
VPDES PERMIT PROGRAM
LIST OF SPECIAL CONDITIONS RATIONALE

6. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4.

7. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters with quantification levels to ensure consistent, accurate reporting on submitted reports.

8. Sludge Management Plan

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-420, and 40 CFR 503.1 specify the purpose and applicability for sludge management plans. The VPDES Permit Regulation, 9 VAC 25-31-100 J.4., also sets forth certain detailed information which must be included in a sludge management plan. The VPDES sewage sludge permit application form and its attachments constitute the sludge management plan and will be considered for approval with the VPDES permit. In addition, the Sewerage Regulations (12 VAC 5-580-10 et seq.) specifies that sludge management activities not specifically provided for through approval of design plans and specifications shall be described in a sludge management plan submitted by the owner to the Department and Board for review and approval. In addition, the Biosolids Use Regulation, 12 VAC 5-585-330 and 340, specifies the general purpose and control requirements for an O&M manual in order to facilitate proper O&M of the facilities to meet the requirements of the regulation.

ATTACHMENT 8

RECEIVING WATERS INFO./
TIER DETERMINATION/STORET DATA/
STREAM MODELING

MEMORANDUM
DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE

Pembroke Two - Suite 310

Virginia Beach, VA 23462

SUBJECT: Recommended Effluent Limitations for the ~~Edgewood Mobile Home~~
~~Park's STP~~ - Unnamed Tributary to Tunnels Mill Branch, Accomack,
VA

TO: Permit File via Bob Smithson

FROM: *SSC* Stephen Cioccia via Bob Jackson *R*

DATE: December 5, 1994

COPIES: Modeling File

The subject facility discharges to a dry ditch tributary (a drainage ditch system, which has a 7Q10 of zero) of Tunnels Mill Branch. The receiving stream is basically an intermittent stream/dry ditch system which conveys the discharge via drainage ditches to Tunnels Mill Branch, which is a perennial stream.

The proposed effluent limitations to address oxygen demand are:

cBOD = 10 mg/l

TSS = 10 mg/l

TKN = 3 mg/l

D.O. = 5 mg/l

A Best Engineering Judgement (BEJ) approach is employed to determine appropriate effluent limitations to address oxygen demand. Recent draft OWRM guidance (see Attachment 1) indicates a discharge to a stream with a 7Q10 of zero would require a discharge that is "self sustaining so to comply with water quality standards". The guidance titled "Advisory Notification of Effluent Limits for Swamp and Marsh Waters", March 9, 1987 (see Attachment 2), identifies effluent limits that are "representative of effluents that are self sustaining". We propose use of the 'Swamp and Marsh Waters' effluent limitations with the substitution of a D.O. of 5 mg/l to equal the D.O. standard at the discharge point. This will result in proposed effluent limitations of 10/10/3/5 (cBOD/TSS/TKN/D.O.). This will be in concert with the guidance and consistent with effluent limitations imposed on similar discharges.

There is some question as to whether the proposed effluent limitations will be adequate to maintain the applicable water quality standards specified by the Class III stream classification (instream D.O. of 5 mg/l). However, all available information indicates that limits at least as stringent as 10/10/3/5 are required. We recommend that monitoring of the receiving stream be conducted by DEQ, at a time after the final limitations have become effective, in order to verify that these proposed limitations will maintain standards.

MEMORANDUM
Office of Environmental Research and Standards
State Water Control Board
2111 N. Hamilton Street P. O. Box 11143 Richmond, Virginia 23230

SUBJECT: Advisory Notification of Effluent Limits for Swamp and Marsh Waters

TO: L. G. Lawson

FROM: A. J. Anthony *ASA*

DATE: March 9, 1987

COPIES: M. A. Bellanca, W. L. Woodfin, M. D. Phillips, J. W. Gregory, Regional Directors, file

In the event that a proposal is received for discharge to a swamp or marsh that cannot be modeled and the current standards are being violated for whatever reason, OERS recommends the following effluent limits:

CBOD ₅ =	10 mg/l
TSS =	10 mg/l
TKN =	3 mg/l
D.O. =	3 mg/l
Cl ₂ =	0.011 mg/l

Our rationale for these recommendations are as follow:

1. We have found over the past years, through application of modeling technology to small streams, that the above limits are representative of effluents that are "self-sustaining"; that is: such an effluent will not normally violate the stream standard even if the stream consists of 100% effluent.

Given the fact that the areas of intended application of our recommendations are such that the stream will not possess good mixing processes and may in fact contain 100% effluent for significant distances and times render it necessary, in our opinion, that discharges be essentially of "self-sustaining" quality.

2. CBOD₅ — We are recommending nitrification and consequently CBOD₅ is what will be measured. In addition, we believe that where both unoxidized nitrogen and hydrocarbons are limited due to considerations of stream dissolved oxygen, it is correct and reasonable to specify them separately to avoid double counting their impacts.

Attachment 2.

TELEPHONE DOCUMENTATION

SUBJECT : AMMONIA LIMIT CALCULATIONS UNNECESSARY WITH TKN
SWAMP/MARSH LIMIT

WRITTEN BY: R. E. Smithson

DATE: August 18, 1993

TO : Permit Factsheet

DISCUSSION: R. M. Smith and I spoke with Fred Holt on this date concerning the need for ammonia limit calculations when swamp/marsh TKN limits apply. He informed us that a TKN limit of 3 mg/l is stringent enough to protect any receiving stream from ammonia toxicity, hence an NH3 limit would be unnecessary. This applies, as well, when antidegradation is being considered because of tier 2 waters. Ammonia limit calculations using baseline data is not necessary.

CONSIDERATION: Should a draft permit include tiered TKN limits in the summer and ammonia limits in the winter to assist the permittee in meeting denitrification requirements, antidegradation may be a consideration when calculating NH3. If the receiving waters are tier 2, then NH3 baseline data must be utilized.

cc: R. M. Smith,

cc: R. P. Goode

Analysis of the Oak Hall Shopping Center effluent data for chlorine
Averaging period for standard = 4 days

The statistics for chlorine are:

Number of values	=	3
Quantification level	=	100
Number < quantification	=	0
Expected value	=	2433.333
Variance	=	2131599
C.V.	=	.6
97th percentile	=	5921.315
Statistics used	=	Reasonable potential assumptions - Type 2 data

The WLAs for chlorine are:

Acute WLA	=	19
Chronic WLA	=	11
Human Health WLA	=	----

Limits are based on chronic toxicity and 30 samples/month, 8 samples/week

Maximum daily limit	=	16.08832
Average weekly limit	=	9.596767 <i>or .0095 mg/L (.010)</i>
Average monthly limit	=	7.973714 <i>or .0079 mg/L (.008)</i>

Note: The maximum daily limit applies to industrial dischargers
The average weekly limit applies to POTWs
The average monthly limit applies to both.

The Data are

09-27-2001

CRITERION FOR X-Tributary to Tunnels Mill Branch at Oak Hall Shopping Center VA0090875

Units = ug/l unless noted as mg/l

PARAMETER	CRITERIA			QL	WLaA	WLAc	WLAh
	Acute	Chronic	HH				
VH3-N, mg/l	14.49	2.49		0.2	14.48848	2.492394	
Ammonia Acute criteria is one hour average conc., Chronic criteria is 30-day average conc.							
Acenaphthene			2700	10			2700
Aldrin	3	.3	.0014	0.05	3	.3	.0014
Anthracene			110000	10			110000
Antimony			4300	10			4300
AS III	360	190		10	360	190	
Benzene			710	10			710
Benzo(a)anthracene			.49	10			.49
Benzo(b)fluoranthene			.49	10			.49
Benzo(k)fluoranthene			.49	10			.49
Benzo(a)pyrene			.49	10			.49
Bromoform			3600	10			3600
Butyl benzyl phthalate			5200	10			5200
Cadmium	3.92	1.13		1	3.922119	1.134259	
Carbon Tetrachloride			45	10			45
Chlordane	2.4000	0.0043	0.0059	0.2	2.4	.0043	.0059
Chloride, mg/l	860	230			860	230	
Chlorine Total Residual	19	11		100	19	11	
Chlorodibromomethane			57000	10			57000
Chloroform			4700	10			4700
Chlorophenol			400	20			400
Chlorpyrifos	.083	.041		0.2	.083	.041	
CR III	1736.514	206.983		10	1736.514	206.9825	
CR VI	16	11		10	16	11	
Chrysene			.49	10			.49

PARAMETER

CRITERIA

Acute

Chronic

HH

QL

WLAa

WLAc

WLAh

Copper	17.725	11.824		10	17.72527	11.82384	215000
Cyanide	22	5.2	215000	10	22	5.2	.0084
DD			.0084	0.1			.0059
DE			.0059	0.1			.0059
DT	1.1	.001	.0059	0.1	1.1	.001	
Demeton		.1				.1	
Dibenz(a,h)anthracene			.49	20			.49
Dibutyl phthalate			12000	10			12000
Dichloromethane			16000	20			16000
1,2-Dichlorobenzene			17000	10			17000
1,3-Dichlorobenzene			2600	10			2600
1,4-Dichlorobenzene			2600	10			2600
Dichlorobromomethane			460	10			460
1,2-Dichloroethane			990	10			990
1,1, Dichloroethylene			17000	10			17000
2,4, Dichlorophenol			790	10			790
Dieldrin	2.5	.0019	.0014	0.1	2.5	.0019	.0014
Diethyl phthalate			120000	10			120000
Di-2-Ethylhexylphthalate			59	10			59
2,4, Dimethylphenol			2300	10			2300
2,4-Dinitrotoluene			91	10			91
Endosulfan*	.22	.056	240	0.1	.22	.056	240
Endrin	.18	.0023	.81	0.1	.18	.0023	.81
Ethylbenzene			29000	10			29000
Fluoranthene			370	10			370
Fluorene			14000	10			14000

PARAMETER	CRITERIA			QL	WLAa	WLAc	WLAh
	Acute	Chronic	HH				
Buthion		.01				.01	
Heptachlor	.52	.0038	.0021	0.05	.52	.0038	.0021
Hexachlorocyclohexane	2	.08	25	0.05	2	.08	25
Hydrogen Sulfide		2				2	
Indeno(1,2,3cd)pyrene			.49	20			.49
Isophorone			490000	10			490000
Kepone		0				0	
Lead	118.912	13.509		5	118.9118	13.50935	
Malathion		.1				.1	
Mercury	2.4	.012	.053	0.2	2.4	.012	.053
Methoxychlor		.03		0.2		.03	
Mirex		0				0	
Monchlorobenzene			21000	50			21000
Nickel	182.724	20.327	4600	40	182.7236	20.32748	4600
Nitrobenzene			1900	10			1900
Parathion	.065	.013			.065	.013	
PCB (check isomer**)		.014	.00045	1		.014	.00045
Pentachlorophenol	14.992	9.464	82	50	14.99175	9.464044	82
Phenol			4600000	10			4600000
Pyrene			11000	10			11000
Radionuclides:							
Gross Alpha Particle			15 pCi/l				
Beta Particle and Photon Activity			4 mrem				
Strontium-90			8 pCi/l				
Tritium			20,000 pCi/l				

PARAMETER	CRITERIA			QL	WLAa	WLAc	WLAh
	Acute	Chronic	HH				
Selenium	20	5	11000	5	20	5	11000
Silver	4.059			2	4.058822		
Tetrachloroethylene			3500	10			3500
Toluene			200000	10			200000
Toxaphene	.73	.0002	.0075	5	.73	.0002	.0075
1,2,4, Trichlorobenzene			950	10			950
Trichlorethylene			810	10			810
2,4,6-Trichlorophenol			65	10			65
Tributyltin	.46	.026			NA	.026	
Vinyl Chloride			5300	10			5300
Zinc	117.022	105.992		20	117.0219	105.9917	

Criterion also applicable for D.O., pH, Temp. and Dioxin

All metals shall be measured as dissolved. For Cadmium, Chromium III, Copper, Lead, Nickel, Silver and Zinc, multiply number by water effect ratio (WER), as defined in 9 VAC 25-260-140.F.

Chronic aquatic life criteria applies to methyl mercury. This criteria will protect the marketability of natural resources, e.g. fish and shellfish.

* Endosulfan I-0.014, Endosulfan II-0.004, Endosulfan Sulfate-0.066

** PCB 1242, 1254, 1221, 1232, 1248, 1260 or 1016 (only 1242 has a detection level)

If background data are available correct the WLA by subtracting the product of background concentration and the appropriate factor (Q7/QE, Q1/QE, Q30/QE, QH/QE, 0, 1 or 49)

If receiving waters are transitional, run fresh and salt and use most stringent

INPUT INFORMATION:

PWS = n Lake, marsh or swamp = n
 90th percentile Temperature = 23.6
 Effluent hardness = 100
 1Q10 = 0 7Q10 = 0 3Q5 = 0
 IWCa = 1 IWCC = 1
 Flow Ratios: Q1/QE= 0 Q7/QE= 0 Q30/QE= 0 QH/QE= 0

Receiving stream is X-Tributary to Tunnels Mill Branch - fresh
 Contaminated stormwater = n
 90th percentile pH = 7.5
 Stream hardness = 100
 Harmonic mean = 0 Effluent flow = .01

Planning Permit Review

36

Date: 6/2/2011

To: Kristie Britt, TRO

Permit Writer: RE Smithson

Facility: Oak Hall Shopping Center WWTP

Permit Number: VA0090875

Issuance, Reissuance or Modification (if Modification describe): reissuance

Permit Expiration Date: 11/30/2011

Waterbody ID (ex: VAT-G15E): VAT-C09R

Topo Name: Hallwood VA- 142A

Facility Address:

Hwy 13 & Rt 175 (Nash Corner), Oak Hall, VA 23415

Receiving Stream: Attached are topographic maps showing facility property boundaries and outfall(s) locations for those included in this request.

Stream Name: Unnamed Trib to Tunnels Mill Branch to Bullbegger Creek	
Click here to enter text.	
Stream Data Requested? Click here to enter text.	
Outfall #: 001	Lat Lon: 37 56 34.9 75 32 18.4
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Stream Name (2): Click here to enter text.	
Click here to enter text.	
Stream Data Requested? Click here to enter text.	
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.

If greater than 2 receiving streams or 3 outfalls per stream please provide a separate table with outfall listings and Latitude Longitude description.

Planning Review:

303 (d): Indicate Outfalls which discharge directly to an impaired (Category 5) stream segment and parameters impaired	
Outfall 001 does not discharge to a 303d impaired water. AU associated with Unnamed Trib to Tunnels Mill Branch is VAT-C09R ZZZ01A00.	
Click here to enter text.	
Tier Determination	
Tier	Tier 1 since outfall discharges to a low flow stream. Attachment 1.
Tier	Click here to enter text.
Management Plan	
Is the facility Referenced in a Management Plan?	NO
Are limits contained in a Management Plan?	NO

Review will be completed in 30 days of receipt of request.

Additional Comments:

KNB 6/13/2011

Until further guidance is provided by OWRM Permits, assessment of waters for NH_3 should be based upon OWRM Guidance No. 93-015 from Larry G. Lawson, dated June 22, 1993.

The above guidance specifies that the ambient NH_3 data should be compared to the NH_3 standard (calculated using 90th percentile of ambient data for pH and temperature of that segment) and by using the "STANDARDS.EXE Program" developed by OWRM Permits Modelling. (These environmental conditions are considered critical design conditions to protect water quality and to comply with WQS.) If the 97th percentile of the in-stream data is greater than either of the calculated NH_3 standards (chronic or acute), then OWRM considers the standard is being violated and the segment is WQL.

2.4.7 Wasteload Allocations Where The 7Q10 Is Zero Or Minimal

A discharge to a water course with a 7Q10 of zero or near zero would be required to have effluent limits that would comply with water quality standards, at a minimum. The discharge would have to be "self sustaining" so to comply with water quality standards. Therefore, the discharge would be WQL and the receiving water course with a 7Q10 of zero near zero would be considered a tier 1 segment.

Dry-ditch
X = Tier 1

A discharge to a tier 1 water that empties into a tier 2 water would have to be evaluated for antidegradation at the point of confluence of the two water courses, if the discharge is in close enough proximity to impact the tier 2 water. In the above scenario, antidegradation requirements to protect tier 2 waters may apply to a discharge to a tier 1 water. Therefore, effluent limits may be more stringent than required by the numerical water quality standards.

If a discharge occurs to a dry ditch or tributary that empties into a free flowing stream and the distance from the discharge to the next confluence is too short to model (based upon the current modelling programs), then the discharge should be modelled as if it occurs directly to the free flowing stream.

2.4.8 Estuaries - Wasteload Allocations & TMDL Development

Similar to freshwater streams, water quality wasteload allocations (WQWLAs) and TMDLs in all tidal influenced waters will be expressed as a mass limitation for the conventional parameters (BOD_5 , cBOD_5 , TKN, and NH_3) and as a concentration for toxics.

Tidal freshwater segments and transition zone segments identified

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER DIVISION
OFFICE OF WATER RESOURCE MANAGEMENT

(SECOND DRAFT)
GUIDANCE MANUAL

FOR THE
VIRGINIA WATER QUALITY MANAGEMENT PLAN

March 4, 1994

Attachment 1-2

Date: 6/2/2011

To: Jennifer Howell, TRO JSH 6/13/2011

Permit Writer: RE Smithson

Facility: Oak Hall Shopping Center

Permit Number: VA0090875

Issuance, Reissuance or Modification (if Modification describe) : reissuance

Permit Expiration Date: 11/30/11

Waterbody ID (ex: VAT-G15E): VAT-C09E

Topo Name: Hallwood Va 142A

Facility Address:

US Hwy 13at Rt. 175 (Nash Corner), Oak Hal, VA 23415

Receiving Stream: Attached are topographic maps showing facility property boundaries and outfall(s) locations for those included in this request.

Stream Name: Unnamed Trib. To Tunnels Mill Br. To Bullbegger Creek	
Click here to enter text.	
Outfall #: 001	Lat Lon: 375634.9
Outfall #: 001	Lat Lon: 753218.4
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Stream Name (2): Click here to enter text.	
Click here to enter text.	
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.

If greater than 2 receiving streams or 3 outfalls per stream please provide a separate table with outfall listings and Latitude Longitude description.

Is there a design flow change? If yes give the change. no

TMDL Review:

Is a TMDL IN PROGRESS for the receiving stream? NA	
Has a TMDL been APPROVED that includes the receiving stream?	
YES, see below	
If yes, Include TMDL Name, Pollutant(s) and date of approval:	
Pocomoke Sound & Pocomoke River including Holdens Creek, Bulbegger Creek, and Pitts Creek Bacteria (Shellfish) TMDL approved by EPA 4/15/2009 (SWCB approval 11/14/2009).	
Is the facility assigned a WLA from the TMDL?	YES
If Yes, what is the WLA?	
Fecal Coliform WLA = 7.57E+07 MPN/100mL (based on Design Flow = 0.01 MGD and 200MPN/100mL permitted FC conc)	

Review will be completed in 30 days of receipt of request.

Additional Comments:

Bulbeggger Creek in the 2010 Assessment for VAT-C09E_BLB01A06 - (ADMIN) condemnation # 075-033 A (effective 20081105)

PARTIAL DELIST 2010 - Fecal Coliform - C09E-10-SF (CFL 1998) So up until 2008 the shellfish use was impaired for Bulbeggger Cr and therefore made admin use removed in the 2010 IR.

Shellfishing Use Removed 2010 - DSS Administrative Condemnation - Condemnation # 075-033 A, 20081105. **TMDL will remain in effect and WLA for VA0090875 should be maintained based on permit requirements.**

The Recreation Use is impaired due to exceedance of the instantaneous criteria for Enterococcus bacteria at station 7-BLB004.63 (5 violate / 12 obs.). Covered under TMDL VAT-C09E-SF (35957) EPA approved 4/15/2009. **No WLA for enterococci needed.**

In addition, Bulbeggger Creek is a tributary to Chesapeake Bay segment POCMH, which is listed in the Chesapeake Bay TMDL (EPA approved 12/29/2010). **No WLA has been assigned for VA0090875 in this TMDL.**

ATTACHMENT 9

TABLE III (a) AND TABLE III (b) -
CHANGE SHEETS

TABLE III(a)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
001	Fecal Coliform	n/a to 1/Month	n/a to 200 MPN/100 ml	TMDL WIA (2010 Assessment)	RES
OTHER CHANGES FROM:					
		CHANGED TO:			
Removal of e. coli compliance schedule		126 n/100ml mo. avg.; compliance schedule met			
Add TMDL Reopener language in special conditions		Standard condition when TMDL has been promulgated (in case of future changes)			
					RES
					RES

TABLE III (b)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes MADE DURING PERMIT PROCESS and give a brief rationale for the changes).

N/A

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
001					

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL

ATTACHMENT 10

EPA PERMIT CHECKLIST

45

Part I. Virginia Draft Permit Submission Checklist
State "Transmittal Checklist" to Assist in Targeting
Municipal and Industrial Individual NPDES Draft Permits for Review

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: Oak Hall Shopping Center WWTP

NPDES Permit Number: VA0090875

Permit Writer Name: R. E. Smithson

Date: 07/14/11

Major ☐ Minor ☒ Industrial ☐ Municipal ☒

I.A. Draft Permit Package Submittal Includes:

	Yes	No	N/A
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	X		
3. Copy of Public Notice?		X	
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?			X
6. A Reasonable Potential analysis showing calculated WQBELs?	X		
7. Dissolved Oxygen calculations?		X	
8. Whole Effluent Toxicity Test summary and analysis?			X
9. Permit Rating Sheet for new or modified industrial facilities?			X

I.B. Permit/Facility Characteristics

	Yes	No	N/A
1. Is this a new, or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	X		
3. Does the fact sheet or permit contain a description of the wastewater treatment process?	X		

I.B. Permit/Facility Characteristics – cont.

	Yes	No	N/A
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		X	
5. Has there been any change in streamflow characteristics since the last permit was developed?		X	

6. Does the permit allow the discharge of new or increased loadings of any pollutants?		X	
7. Does the fact sheet or permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water?	X		
a. Has a TMDL been developed and approved by EPA for the impaired water?	X		
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?	X		
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?	X		
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?		X	
10. Does the permit authorize discharges of storm water?		X	
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?		X	
12. Are there any production-based, technology-based effluent limits in the permit?		X	
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		X	
14. Are any WQBELs based on an interpretation of narrative criteria?			X
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition ?		X	
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?		X	
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?			X
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?		X	
20. Have previous permit, application, and fact sheet been examined?	X		

Region III NPDES Permit Quality Checklist – for POTWs
(To be completed and included in the record for POTWs and other municipals)

<u>II.A. Permit Cover Page/Administration</u>	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	X		
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	X		

<u>II.B. Effluent Limits - General Elements</u>	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?	X		
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?	X		

<u>II.C. Technology-Based Effluent Limits (POTWs)</u>	Yes	No	N/A
1. Does the permit contain numeric limits for <u>ALL</u> of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?	X		
2. Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?	X		
a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			X
3. Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?	X		
4. Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?	X		
5. Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?		X	
a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			X

<u>II.D. Water Quality-Based Effluent Limits</u>	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	X		
2. Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			X

<u>II.D. Water Quality-Based Effluent Limits – cont.</u>	Yes	No	N/A
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		

a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	X		
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			X
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?	X		
d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?			X
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?	X		
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	X		
6. For all final WQBELs, are BOTH long-term AND short-term effluent limits established?	X		
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8. Does the record indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	X		

II.E. Monitoring and Reporting Requirements

	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?	X		
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?	X		
3. Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?		X	
4. Does the permit require testing for Whole Effluent Toxicity?			X

II.F. Special Conditions

	Yes	No	N/A
1. Does the permit include appropriate biosolids use/disposal requirements?	X		
2. Does the permit include appropriate storm water program requirements?			X

II.F. Special Conditions – cont.

	Yes	No	N/A
3. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			X
4. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	X		
5. Does the permit allow/authorize discharge of sanitary sewage from points other than the POTW outfall(s) or CSO outfalls [i.e., Sanitary Sewer Overflows (SSOs) or treatment plant bypasses]?		X	

6. Does the permit authorize discharges from Combined Sewer Overflows (CSOs)?		X	
a. Does the permit require implementation of the "Nine Minimum Controls"?			X
b. Does the permit require development and implementation of a "Long Term Control Plan"?			X
c. Does the permit require monitoring and reporting for CSO events?			X
7. Does the permit include appropriate Pretreatment Program requirements?			X

II.G. Standard Conditions

	Yes	No	N/A
1. Does the permit contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	X		
<p>List of Standard Conditions – 40 CFR 122.41</p> <p>Duty to comply Property rights Reporting Requirements Duty to reapply Duty to provide information Planned change Need to halt or reduce activity Inspections and entry Anticipated noncompliance not a defense Monitoring and records Transfers Duty to mitigate Signatory requirement Monitoring reports Proper O & M Bypass Compliance schedules Permit actions Upset 24-Hour reporting Other non-compliance</p>			
2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for POTWs regarding notification of new introduction of pollutants and new industrial users [40 CFR 122.42(b)]?	X		

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Review Checklist – For Non-Municipals

(To be completed and included in the record for all non-POTWs)

not applicable

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?			
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?			

II.B. Effluent Limits - General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?			
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			

II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ)	Yes	No	N/A
1. Is the facility subject to a national effluent limitations guideline (ELG)?			
a. If yes, does the record adequately document the categorization process, including an evaluation of whether the facility is a new source or an existing source?			
b. If no, does the record indicate that a technology-based analysis based on Best Professional Judgement (BPJ) was used for all pollutants of concern discharged at treatable concentrations?			
2. For all limits developed based on BPJ, does the record indicate that the limits are consistent with the criteria established at 40 CFR 125.3(d)?			
3. Does the fact sheet adequately document the calculations used to develop both ELG and /or BPJ technology-based effluent limits?			
4. For all limits that are based on production or flow, does the record indicate that the calculations are based on a "reasonable measure of ACTUAL production" for the facility (not design)?			
5. Does the permit contain "tiered" limits that reflect projected increases in production or flow?			
a. If yes, does the permit require the facility to notify the permitting authority when alternate levels of production or flow are attained?			
6. Are technology-based permit limits expressed in appropriate units of measure (e.g., concentration, mass, SU)?			

not applicable

51

II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ) – cont.	Yes	No	N/A
7. Are all technology-based limits expressed in terms of both maximum daily, weekly average, and/or monthly average limits?			
8. Are any final limits less stringent than required by applicable effluent limitations guidelines or BPJ?			

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?			
2. Does the record indicate that any WQBELs were derived from a completed and EPA approved TMDL?			
3. Does the fact sheet provide effluent characteristics for each outfall?			
4. Does the fact sheet document that a “reasonable potential” evaluation was performed?			
a. If yes, does the fact sheet indicate that the “reasonable potential” evaluation was performed in accordance with the State’s approved procedures?			
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have “reasonable potential”?			
d. Does the fact sheet indicate that the “reasonable potential” and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations where data are available)?			
e. Does the permit contain numeric effluent limits for all pollutants for which “reasonable potential” was determined?			
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?			
6. For all final WQBELs, are BOTH long-term (e.g., average monthly) AND short-term (e.g., maximum daily, weekly average, instantaneous) effluent limits established?			
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?			
8. Does the fact sheet indicate that an “antidegradation” review was performed in accordance with the State’s approved antidegradation policy?			

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters?			

a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?			
3. Does the permit require testing for Whole Effluent Toxicity in accordance with the State's standard practices?			

II.F. Special Conditions

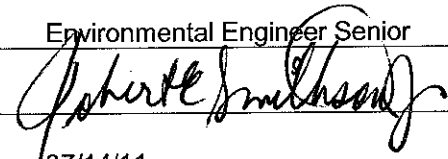
	Yes	No	N/A
1. Does the permit require development and implementation of a Best Management Practices (BMP) plan or site-specific BMPs?			
a. If yes, does the permit adequately incorporate and require compliance with the BMPs?			
2. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			
3. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?			

II.G. Standard Conditions

	Yes	No	N/A
1. Does the permit contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?			
<p>List of Standard Conditions – 40 CFR 122.41</p> <p>Duty to comply Property rights Reporting Requirements Duty to reapply Duty to provide information Planned change Need to halt or reduce activity Inspections and entry Anticipated noncompliance not a defense Monitoring and records Transfers Duty to mitigate Signatory requirement Monitoring reports Proper O & M Bypass Compliance schedules Permit actions Upset 24-Hour reporting Other non-compliance</p>			
2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for existing non-municipal dischargers regarding pollutant notification levels [40 CFR 122.42(a)]?			

Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	<u>Robert E. Smithson, Jr.</u>
Title	<u>Environmental Engineer Senior</u>
Signature	<u></u>
Date	<u>07/14/11</u>

ATTACHMENT 11

CHRONOLOGY SHEET

CHRONOLOGY OF EVENTS

APPLICATION RECEIVED	APPLICATION RETURNED	ADDITIONAL INFO REQUESTED	APPLICATION/ADD INFO DUE BACK IN RO	APPLICATION/ADD. INFO RECEIVED
05/19/11	05/23/11	05/23/11		06/22/11
APPLICATION TO VDH: 06/22/11		VDH COMMENTS RECEIVED: 06/27/11		
APPLICATION TO DSS: 06/22/11		DSS COMMENTS RECEIVED: 07/06/11		
APPLICATION ADMIN. COMPLETE: 06/22/11		APPLICATION TECH. COMPLETE: 07/06/11		
DATE FORWARDED TO ADMIN:		N/A		

Date DESCRIPTIVE STATEMENT [CHRONOLOGY OF EVENTS] (Meetings, telephone calls, letters, memos, hearings, etc. affecting permit from application to issuance)

[illegible]

ATTACHMENT 12

PUBLIC PARTICIPATION

There were no comments received during the public comment period and there were no objections to the reissuance of this VPDES permit for the Oak hall Shopping Center.

ATTACHMENT 13

OTHER DOCUMENTS



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard, Virginia Beach, Virginia 23462

(757) 518-2000 Fax (757) 518-2009

www.deq.virginia.gov

Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

July 12, 2011

Mr. James Koehler, Vice-President
Oak Hall Shopping Center
655 Fox Run Road, Suite B
Findley, OH 45840

RE: VPDES Permit Reissuance VA0090875
Oak Hall Shopping Center Wastewater Treatment Plant
Oak Hall, VA

Dear Mr. Koehler:

Your revised application received June 22, 2011 has been reviewed and it appears to be complete. Other reviews of the application will be required by state agencies to ensure that public health and the environment will be protected.

The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review.

Thank you for your cooperation and that of your consultant in submitting the completed application. If you have any questions about our procedures or the status of your draft permit, please feel free to call me at (757) 518-2106.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert E. Smithson".

Robert E. Smithson
Environmental Engineer Senior

cc: DEQ ECM File
Mr. Don Hearl, ESS (Consultant)



COMMONWEALTH of VIRGINIA

Department of Health DIVISION OF SHELLFISH SANITATION

109 Governor Street, Room 614-B
Richmond, VA 23219

Ph: 804-864-7487
Fax: 804-864-7481

MEMORANDUM

DATE: 7/6/2011

TO: Robert E. Smithson, Jr.
Department of Environmental Quality

FROM: B. Keith Skiles, MPH, Classification Chief
Division of Shellfish Sanitation

SUBJECT: Oak Hall Shopping Center WWTP

City / County: Accomack County

Waterbody: Unnamed tributary to Tunnels Mill Branch to Bulbagger Creek

Type: ☒ VPDES ☐ VMRC ☐ VPA ☐ WWP ☐ JPA ☐ Other:

Application / Permit Number: VA0090875

- ☐ The project will not affect shellfish growing waters.
- ☐ The project is located in approved shellfish growing waters, however, the activity as described will not require a change in classification.
- ☒ The project is located in condemned shellfish growing waters and the activity, as described, will not cause an increase in the size or type of the existing closure.
- ☐ The project will affect condemned shellfish waters and will not cause an increase in the size of the total condemnation. However, a prohibited area (an area from which shellfish relay to approved waters for self-purification is not allowed) will be required within a portion of the currently condemned area. See comments.
- ☐ A buffer zone (including a prohibited area) has been previously established in the vicinity of this discharge, however, the closure will have to be revised. Map attached.
- ☐ This project will affect approved shellfish waters. If this discharge is approved, a buffer zone (including a prohibited area) will be established in the vicinity of the discharge. Map attached.
- ☐ Other.

ADDITIONAL
COMMENTS:

Area #: 75

bks



COMMONWEALTH of VIRGINIA

DEPARTMENT OF HEALTH

OFFICE OF DRINKING WATER

Southeast Virginia Field Office

Karen Remley, MD, MBA, FAAP
State Health Commissioner

J. Wesley Kleene, PhD, PE
Director, Office of Drinking Water

830 Southampton Avenue
Suite 2058
Norfolk, VA 23510
Phone (757) 683-2000
Fax (757) 683-2007

MEMORANDUM

TO: Robert E. Smithson Jr.
Environmental Engineer Senior
Department of Environmental Quality – Tidewater Regional Office

DATE: JUN 24 2011

FROM: Daniel B. Horne, PE
Engineering Field Director

DBH

RECEIVED – DEQ

JUN 27 2011

Tidewater Regional
Office

CITY/COUNTY: Accomack

PROJECT TYPE: ☐ New ☒ Renewal or Revision

☒ VPDES ☐ VPA ☐ VWPP ☐ JPA ☐ Other: _____

☒ Number: VA 0090875

OWNER/APPLICANT: TAI Oak Hall LLC/Environmental Systems Services, Ltd.

PROJECT: Oak Hall Shopping Center

- ☒ There are no public water supply raw water intakes located within 15 miles downstream or within one tidal cycle upstream of the existing project.
- ☐ The raw water intake for the _____ waterworks is located _____ miles [downstream/upstream] of the discharge. This should be a sufficient distance to minimize the impacts of the discharge. We recommend a minimum Reliability Class of _____ for this facility.
- ☐ The raw water intake for the _____ waterworks is located _____ miles [downstream/upstream (within one tidal cycle)] of the discharge.
- ☐ Please forward a copy of the Draft Permit for our review and comment.
- ☐ Comments:

Prepared by:

Dixon W. Tucker
Dixon W. Tucker, PE
District Engineer

pc: V.D.H. - Office of Drinking Water, Field Services Engineer

R:\DIST22\Accomack\DEQ Permits\2011\OakHallShoppingCenterJune2011.docx

Smithson Jr., Robert (DEQ)

To: Horne, Daniel (VDH); Stagg, Ben (MRC); Howell, Beth (MRC); Skiles, Keith (VDH)
Subject: Permit Application for Review-VA0090875 Oak Hall Shopping Center, Accomack County
Attachments: VA0090875 applic2011.pdf; VA0090875 VDH ltr 2011.pdf; VA0090875 DSS ltr 2011.pdf;
VA0090875 VMRC ltr 2011.pdf

Attached is a link to the FTP site to access a permit application for your review. Under the folder for the facility listed above on the FTP site, there is a letter for each agency and the permit application. Please pull the information that you need off the FTP site *or reference the attachments here*.

If you have any questions, please contact me.

<ftp://ftp.deq.virginia.gov/wps/PERMIT/TRO/VDH,%20DSS,%20VMRC%20For%20Review/VA0090875%20Oak%20Hall%20Shopping%20Center/>

Smithson Jr., Robert (DEQ)

From: Smithson Jr., Smithson,Robert (DEQ)
Sent: Monday, May 23, 2011 4:23 PM
To: 'valeriac@ess-services.com'
Cc: Mastice, Barbara (DEQ)
Subject: Oak Hall Shopping Center Permit Application

Hi Valerie, reviewed application and comments are (almost same as with Sunset Bay) as follows:

Sludge Form 2S

1. Page 2 of 16 - 1.d. facility zip code is wrong. Zip also needs correcting on first page (bottom) of General Form 1
2. EPA Form 1 needs corrections for items A.(private) not public and item 56 under status of operator (P) for private (not M).
3. EPA Form 2A-pages 8 and 10-21: need N/A to appear on each. Revisit pages on form 2A in particular
4. Revisit public notice authorization form: needs to say Eastern Shore News, etc.

Let me know if you have questions

64

Smithson Jr., Smithson,Robert (DEQ)

From: Valeria Compton [valeriac@ess-services.com]
Sent: Friday, April 01, 2011 3:22 PM
To: Smithson Jr., Smithson,Robert (DEQ)
Subject: RE: Reissuance : VPDES Applications Due For Oak Hall Shopping Center and Sunset Bay South

I have them on my calendar.....Have a wonderful weekend.

Val

From: Smithson Jr., Smithson,Robert (DEQ) [mailto:Robert.SmithsonJr@deq.virginia.gov]
Sent: Friday, April 01, 2011 3:00 PM
To: valeriac@ess-services.com; donh@ess-services.com
Cc: McConathy, James (DEQ)
Subject: Reissuance : VPDES Applications Due For Oak Hall Shopping Center and Sunset Bay South

Hi Valerie,

Just a reminder that the application for reissuance of Sunset Bay South (VA0054003) is due May 9, 2011 and Oak Hall Shopping Center (VA0090875) is due June 3, 2011. Please respond by telling me that you have these dates on your calendar and that everything at your end is proceeding along just fine and you don't anticipate any problems to meet those submittal dates. At least that's how I hope you'll respond. It's Friday and I wouldn't like bad news ...

Let me know too if you are encountering any problems. Thanks. Have a good weekend..